09/878515 08/11/81

APPLICATIC

| POSITION                  | INITIALS | ID NO. | DATE     |  |  |  |  |  |
|---------------------------|----------|--------|----------|--|--|--|--|--|
| FEE DETERMINATION         | -1/2     |        | 01/14/01 |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       | 0        | 33/    | 6/2      |  |  |  |  |  |
| FORMALITY REVIEW          | CH       | 1119   | 08-09-0  |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW |          | 187    | 08-09-0  |  |  |  |  |  |

## **INDEX OF CLAIMS**

| ~ | ·····Rejected              | N | Non-elected  |
|---|----------------------------|---|--------------|
|   | Allowed                    | 1 | Interference |
|   | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

| 21-   | •        | ÷n           |          |                |          |  |          |              | _          |          |                   |               |          |   |          | 0               |                |                  |            |          |                 |   | ected         |          |  |            |          |                |          |              |          |               |
|-------|----------|--------------|----------|----------------|----------|--|----------|--------------|------------|----------|-------------------|---------------|----------|---|----------|-----------------|----------------|------------------|------------|----------|-----------------|---|---------------|----------|--|------------|----------|----------------|----------|--------------|----------|---------------|
| Cla   | im       | ۲,           | <b>а</b> | _              | _        | Da   | ate      | _            | -          |          |                   | Cli           | aim      | _   |          |                 | Da             | ate              |            |          |                 |   | Cla           | aim      |  |            |          | Di             | ate      |              |          |               |
| _     | na.      | 100          | , , , ,  | Ø              |          |  |          |              |            |          |                   |               | 펼        |   |          |                 |                |                  |            |          | $\lceil \rceil$ |   |               | ल        | $\top$   | Т          | T        | Τ              | Т        | $\top$       | T        | $\top$        |
| Final | Original | 1 3          |          | î              |          |  |          | 1            |            |          |                   | Final         | Original |   | 1        |                 |                |                  |            |          |                 |   | la<br>la      | Original |  |            |          |                |          |              |          | 1             |
| 띡     | 2        | 14           | ╀        | 4-             | +        | 4  | ╀        | 4            |            | 1        | $\perp$           | i i           | ō        |   | 4        | ┸               | $\perp$        | $\perp$          | 1          |          | LL              |   | iΞ            | ō        |  |            |          |                |          |              |          |               |
|       | ¥        | V            | ╄-       | +              | 4        | 4-   | ╄        | +            | -          | ┷        | Ш                 |               | 51       |   | 1        | 丄               |                |                  | <u>L</u> . |          |                 | ╛ |               | 101      | Ī  | Т          | Т        | T              | Т        | Т            | 1        | T             |
|       | _j       | ~            | $\perp$  | +-             | $\perp$  | 4_   | <u> </u> | 4            |            | $\perp$  | Ш                 |               | 52       | $\perp$   | $\perp$  | L               |                |                  |            |          |                 | 7 |               | 102      | 7  | T          | T        |                | T        | ✝            | 1        | T             |
|       |          |              | Ļ        | 1              | 丄        | ↓_   | _        | ┸            |            |          |                   |               | 53       | $\perp$   |          |                 |                |                  |            | Г        |                 |   |               | 103      |  |            | T        | 1              | 1        | T            | 1        | 1             |
| -     | _1       | V            |          | $\bot$         | ↓_       | <u> </u>   | ╄        | 4            | _          | 丰        | Ш                 |               | 54       | $\perp$   |          | I               | Ι              | L                |            |          |                 | 7 |               | 104      | $^{+}$   | ┪          | $^{+}$   | +              | †        | $\dagger$    | +        | +-            |
| _     | \$       | V            | ļ.,      | $\perp$        | _        | _  | ┺        |              | $\perp$    | $\perp$  | $\bot$            |               | 55       |   |          |                 | Τ              | Γ                | П          |          |                 |   |               | 105      |  | 1          | $\top$   | 1              | T        | T            | †        | $^{+}$        |
| _     | <b>(</b> | Ą            | L        | ┸              | ↓_       | 丄  | ┸        | ┺.           | $\perp$    | $\perp$  | $\perp \perp$     |               | 56       |   | Т        | Τ               | T              |                  | T          |          |                 | 7 |               | 106      | ╅  | $\top$     | +        | +-             | 十        | 1-           | +-       | 十             |
| _     | 7        |              | L        | 1              | L        | 1  | L        | $\perp$      | _          |          | Ш                 |               | 57       |   | Т        |                 | Т              |                  | Τ          |          |                 | ٦ |               | 107      | $\top$   |            | +-       | +-             | +        | +-           | +        | 十             |
| _     | 8        |              | L        | L              |          | $\perp$  |          |              | 1          |          |                   |               | 58       | T   | T        |                 | Т              | Т                |            |          |                 | ٦ |               | 108      | _  | +          | +        | †-             | ╆        | ✝            | +        | +             |
| _     | 9        |              | L        |                | $\perp$  |  | 1        |              |            |          | $\Box$            |               | 59       |   | Т        |                 | 1              | Г                |            |          |                 | 1 | _             | 109      | +  | +-         | +        | ╁              | +-       | +            | +        | +-            |
|       | 10       |              | L        |                | <u>L</u> |  | "        | Т            | T          |          | П                 |               | 60       | T   | 1        | $\top$          |                | 1                | <u> </u>   | П        | $\vdash$        | 1 |               | 110      | $^{\dagger}$                                     | +          | +        | +              | ╁        | +            | +        | ╁             |
| -     | (LI      | $\mathbb{L}$ | L        |                |          | Π  | Г        | T            |            |          | $\Box$            |               | 61       | 十   | 1        | †               | $\top$         | 1                | <u> </u>   |          | $\top$          | 1 |               | 111      | +  | +          | ╁        | +-             | +        | +-           | +-       | +             |
|       | 12       |              |          |                |          | Г  | П        | Τ            | Ī          | T        | TT                |               | 62       | $\top$  | 1        | $\top$          | 1              | 1                | ┢          |          |                 | 1 |               | 112      | ┿  | ╁          | +-       | ╆              | $\vdash$ | ┼            | +        | ╁             |
|       | 13       |              | Г        |                | Т        | П  | Τ        | T            | $\top$     |          |                   |               | 63       |   | †-       | T               | t-             | † <del>-</del> - |            | $\vdash$ | +               | 7 |               | 113      | +  | ╁          | +        | +              | ╁        | ┼            | $\vdash$ | +-            |
| T     | 14       | П            | Г        | Γ              | Г        | Т  | T        |              | $\top$     | 1        | $\Box$            |               | 64       | +   | +        | +-              | +              | -                | ╁╌         | $\dashv$ | +               | ┨ |               | 114      | +  | ╁          | ┼─       | ┼              | ₩        | ┼            | ⊬        | ⊬             |
| T     | 15       | П            | Г        | T              | T        | Т  |          | 1            | $\top$     | $\top$   | $\Box$            |               | 65       | +-  | +        | +               | +-             | ┢                | $\vdash$   | $\vdash$ |                 | ┥ |               | 115      | +  | +          | +        | -              | -        | ⊢            | ┼        | ├             |
|       | 15<br>16 | 1            | _        | $\vdash$       |          | Г  | T        | †-           | $\top$     | 1        | $\dagger \dagger$ |               | 66       | +   | +-       | +-              | $\vdash$       | ┢                | ┝┤         | -        | -               | ┨ |               | 116      | +  | ╁          | +        | ╀              | ⊬        | <del> </del> | ⊢        | ⊢             |
| 7     | 17       | Ħ            |          | T              | <b>†</b> | 1  | 1        | 1            | $\top$     | +-       | H                 |               | 67       | +   | +        | ╁╌              | ╁              | $\vdash$         | $\vdash$   | $\vdash$ |                 | ┨ | $\vdash$      |          | +-   | ┿          | ╀        | <del> </del> — | ├-       | ⊬            | ₩        | ـ             |
|       | 18       | #            |          | +-             | 1        | <del>                                     </del> | ╆┈       | +            | +-         | +        | H                 |               | 68       |   | +-       | +               | ┼╌             | -                | Н          |          | $-\vdash$       | 4 |               | 117      | +  | 4-         | $\vdash$ | ↓_             | ļ.,      | ┡            | ــــ     | L             |
| _     | 19       | t            | H        | $^{\dagger}$   | ╁        | $\vdash$   | ╁        | ┿            | +          | +        | H                 | $\rightarrow$ | 69       | ╁   | +-       | $\vdash$        | <del> </del> — |                  |            | 4        |                 | 4 |               | 118      | $\bot$   | -          | ╄-       | <u> </u>       | _        | L            | ot       |               |
|       | 20       |              | -        | +-             | $\vdash$ | <del> </del>                                     | ┢╌       | +            | +-         | ╁        | +                 | -             |          |   | +        | ┼               | -              | <u> </u>         | Ш          |          |                 | 4 | $\rightarrow$ | 119      | _  | 1          | ot       |                | <u> </u> | $oxed{oxed}$ |          |               |
| ٠,    | 21       | Ŋ            | 7        | ⊢              | ╀        |  | ┞        | ↓_           | ļ          | _        | Ш                 |               | 70       | $\perp$   | L        | ļ               |                |                  |            |          |                 | ╛ | Ш             | 120      |  |            |          | 1              |          | ĺ            |          |               |
| -12   | 4        | ~            | 1        | _              | <u> </u> | $\vdash$   | ļ        | _            | ▙          | -        | Ш                 | _             | 71       |   | ↓_       | L               |                | L_               |            |          |                 | ] |               | 121      |  |            |          |                |          |              |          | П             |
| -6    | 22<br>23 | _            | 4        | <del>  _</del> | <u> </u> | _  | <u> </u> | Ļ.,          | lacksquare | _        | Ш                 |               | 72       | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ |          |                 |                |                  |            |          |                 |   | T             | 122      | Т  | T          |          |                |          |              | П        |               |
|       |          | L.,          | 4        | <u> </u>       | <u>L</u> | _  | <u> </u> | L            | _          | L.       | Ш                 |               | 73       |   | L.       |                 |                |                  |            |          |                 | 7 |               | 123      | T  | 1          |          |                | -        | _            | П        |               |
| _     | 24       | Щ            | 4        | ▙              | L_       | L.   | L        | ļ            | L          | _        |                   |               | 74       | L   |          |                 |                |                  |            |          |                 | 7 |               | 124      | 1  |            | $\vdash$ |                |          | <u> </u>     |          | $\vdash$      |
| 1     | 25       |              | 1        |                |          |  |          | L            | L          | L        | Ш                 |               | 75       | Τ   |          |                 |                |                  |            |          |                 | 1 |               | 25       | +-   |            | 1        |                |          | 1            | $\vdash$ | Н             |
|       | 26       |              | 1        |                | L        |  |          |              |            |          |                   |               | 76       |   |          |                 |                |                  |            | $\dashv$ |                 | 1 |               | 26       | +  | $\dagger$  | -        |                | _        | -            | $\vdash$ | $\vdash$      |
|       | 27       |              | 1        |                |          |  |          |              |            |          | П                 |               | 77       | 1   |          |                 |                |                  |            | 7        |                 | 1 |               | 27       | +  | ╁          | $\vdash$ | -              | -        |              | $\vdash$ |               |
|       | 28       |              |          |                |          |  |          |              |            |          | П                 |               | 78       | 1-  |          |                 |                |                  | _          | +        | +               | 1 |               | 28       | ╁  | 1-         | -        |                |          | Щ            | $\vdash$ | $\vdash$      |
| 2     | 29       |              | T        |                |          |  | ,        |              | П          |          |                   |               | 79       | 1   |          |                 |                |                  | $\dashv$   | $\top$   | -               | 1 |               | 29       | +  | $\vdash$   | $\vdash$ |                |          |              | $\dashv$ | $\vdash$      |
| 3     | 30       | T            | V        |                |          |  |          |              |            |          |                   |               | 80       | +-  | -        |                 |                | _                | $\dashv$   | +        | -               | 1 |               | 30       | ┾  | ├          | $\vdash$ | -              |          |              | $\dashv$ | $\rightarrow$ |
| J     | 31       | $\neg$       | J        |                |          |  |          |              | Г          |          | Н                 |               | 81       | +-  | ┢        |                 |                | -                | $\dashv$   | -+       | $\dashv$        | 1 | -             | _        | +-   |            | $\vdash$ |                |          |              | $\dashv$ |               |
| 3     | 32       |              |          |                |          | $\Box$   |          | ┢            |            | †        | $\vdash$          |               | B2       | +   | $\vdash$ | Н               | $\vdash$       |                  | $\dashv$   | +        |                 | 1 |               | 31       | +  | <b>├</b> ─ |          | $\dashv$       |          |              | -        |               |
|       | 33       |              |          | _              |          |  |          | $\vdash$     |            |          | -                 |               | 33       | +   | ├        |                 | $\dashv$       |                  | -+         | +        | -               | - |               | 32       | ┼-   | ⊢          | $\vdash$ | _              | _        |              | _        | 4             |
|       | 4        | 7            |          |                | $\dashv$ |  |          | 1-           | -          |          | $\dashv$          | -             | 34       | ╁   | $\vdash$ |                 |                |                  | $\dashv$   |          |                 |   |               | 33       | ↓_   | -          | $\vdash$ | _              |          | _            | _        | _             |
| 3     |          | +            |          |                |          | -  |          | -            |            |          | $\dashv$          |               | 35       | ╁   | H        |                 |                |                  | -          |          |                 | - |               | 34       | -  | <u> </u>   | $\sqcup$ |                | _4       | _            | _        | _             |
|       | 6        | +            |          |                | $\vdash$ | _  |          | -            | -          | Н        | $\vdash$          |               | 36       | ╁   | -        | -               | $\dashv$       |                  |            | -        |                 | - |               | 35       | ↓_   | L          | $\sqcup$ | _              | _        |              | _        | _             |
| 3     |          | -1           |          | $\dashv$       |          | -  |          | <del> </del> | $\vdash$   | $\vdash$ | $\dashv$          |               | 37       | +   | -        | $\dashv$        | -              |                  |            | -        | +-              | - |               | 36       | -  | <u></u>    | Ш        |                |          | _            |          | $\perp$       |
| 3     |          | ┰┼           | _        | -              |          |  | -        | -            | <u> </u>   | $\vdash$ |                   |               | 18       | -   | -        |                 | -              |                  |            | 4        |                 |   |               | 37       | ↓_   |            | Ш        |                | _        | _            |          | ┙             |
| 3     |          | -            | -        | $\dashv$       |          | $\dashv$   |          | -            | -          | -        | $\dashv$          |               |          | +-  | Н        |                 | $\dashv$       | _                | _          | 4        | -               |   |               | 38       | L  |            |          |                | i        |              | _1       |               |
| 4     |          | +            |          | -              | $\dashv$ | -  |          | _            | -          | $\vdash$ | _                 |               | 39       | ╄   |          | _               | _              | _                | $\dashv$   |          |                 |   |               | 39       |  |            |          |                |          |              |          |               |
|       |          | $\dashv$     | 4        | $\dashv$       | _        | _  | _        | _            |            | Щ        | _                 |               | 90       |   |          |                 |                |                  |            |          |                 |   | ļ,            | 40       |  |            |          |                | Т        | П            |          |               |
| 4     |          |              | _        |                |          |  | [        |              |            |          |                   |               | 11       |   |          |                 |                | İ                |            |          |                 | 1 | 1             | 41       |  |            |          | $\neg$         | $\neg$   | $\neg$       | $\top$   | ヿ             |
| 4     |          |              |          |                |          |  | !        |              |            |          |                   | 9             | 2        |   |          |                 |                |                  |            | $\top$   | <b>T</b>        |   |               | 42       |  |            | $\dashv$ |                | +        | $\dashv$     | +        | +             |
| 4     | -        |              |          | _              |          |  |          |              |            |          |                   | 9             | 3        |   |          |                 | $\neg$         |                  |            | _        | _               |   |               | 43       | 1  |            | $\dashv$ | $\dashv$       | -+       | 十            | $\dashv$ | +             |
| 4     |          |              |          |                | $\Box$   |  | _7       |              |            |          |                   | 1             | 94       |   |          | $\neg \uparrow$ | $\top$         | 7                | $\neg$     | $\top$   | 1               |   |               | 44       | <del>                                     </del> |            | $\dashv$ | $\dashv$       | -+       | $\dashv$     | +        | +             |
| 4     |          |              |          | J              |          |  | _7       |              |            |          |                   | 5             | 5        |   |          | _               | +              | 7                | +          | +        | +-              |   |               | 15       | -  | $\dashv$   | +        | +              | $\dashv$ | -            | +        | -+-           |
| 4     |          |              |          |                |          |  |          |              |            |          |                   | 9             | 6        |   |          | $\dashv$        | 7              | +                | +          | +        | +               | ' |               | 16       | -  |            | $\dashv$ | $\dashv$       | +        | $\dashv$     | +        | +             |
| 4     | 7        | T            | T        |                | $\neg$   |  |          | _            | 寸          |          | $\neg$            | 9             |          | П   |          | _               | +              | _                | +          | +        | +               |   | 14            |          |  |            | $\dashv$ | $\dashv$       | +        | +            | +        | +             |
| 4     |          | $\neg$       | ٦        |                | 1        | $\dashv$   | +        | _            |            | 一        | $\dashv$          |               | 8        |   | $\dashv$ | $\dashv$        | $\dashv$       | +                | +          | +        | +-              |   | 14            |          | -  | $\dashv$   | +        | $\dashv$       | 4        | $\dashv$     | +        | +             |
| 4     | 9        | 1            | 7        | 7              | $\dashv$ | _  | _†       | _            | ᅱ          | -+       | $\dashv$          |               | 9        | $\vdash$  | +        | $\dashv$        | +              | $\dashv$         | +          | +        | +-              |   |               |          |  | }          | +        | +              | -+       | +            | -        | +             |
| 5     |          | 1            | 7        |                | $\neg$   | 十  | _        |              | +          | -+       | $\exists$         |               | 00       | 1   | -        | +               |                | -                | +-         | +        |                 |   | 14            | 50       |  | _          |          | 4              | _        | $\perp$      |          |               |

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